

SNUZA™ Halo

User Instruction Manual

Version 1.0


**WARNING: READ THESE INSTRUCTIONS
BEFORE OPERATING SNUZA HALO**

Important Notes

- Examine the monitor before every use and do not use if damaged or functioning incorrectly.
- Keep Snuza in the supplied protective case when not in use.

Introduction

Snuza Halo is a new generation high-tech mobile baby monitoring device designed to monitor a baby's breathing not only in the home environment but anywhere the baby goes, whether it's just down the road to friends and family or away on holiday.

SNUZA™ Halo is a product of
Biosentronics 

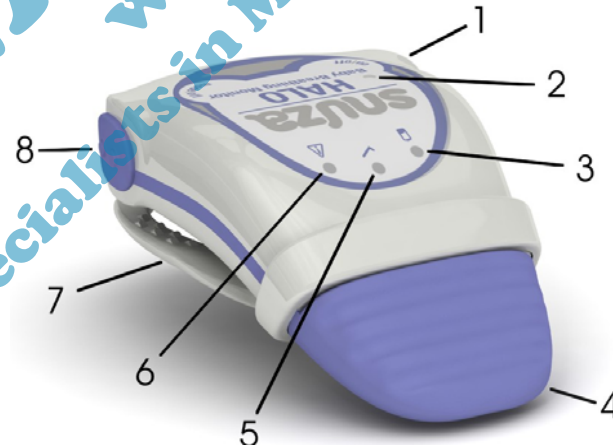


Quick Start Guide

1. Clip SNUZA™ Halo onto the nappy in the area close to the navel.
2. **Important:** the sensor must be in contact with the skin.
3. Switch on by pressing and holding the ON/OFF button for half a second (1).
4. A start-up test will illuminate the indicator lights, vibrate the stimulator, play the start-up tone and perform a battery test.
5. During monitoring, as the baby breathes, stomach movements are detected. Each breath is indicated by the movement indicator which will flash green.
6. Should the sensor not detect breathing movement for 15 seconds, the unit will vibrate in an attempt to resume breathing.
7. If breathing movement is then detected as a result of the vibration the movement indicator light will flash yellow (instead of green) to inform you that a breathing interruption had occurred.
8. If the period of no breathing movement is longer than 20 seconds, the alarm will be activated. The alarm indicator light will flash red in conjunction with the audible alarm. **Note that resuscitation may be required.**
9. To turn off the monitor, both the MODE/OFF and ON/OFF buttons must be pressed simultaneously. A shutdown tone will be heard.

Operation Guide

The image below shows the relevant indicators and buttons itemised with a description in Table 1:



1	ON / OFF Button
2	Sound Emission Hole
3	Battery Indicator Light
4	Breathing Movement Sensor
5	Movement Indicator Light
6	Alarm Indicator Light
7	Nappy Clip
8	MODE / OFF Button

Table 1

Nappy Placement

The nappy should fit snugly on the baby, the monitor secured properly onto the top rim of the nappy. **IMPORTANT:** The thin upper band needs to be folded over the thicker portion of the rim of the nappy. The monitor must be positioned as close to the navel as possible and the nappy edge needs to be inserted all the way up the clip of the monitor. The sensor of the monitor is located at the tip of the unit (4). It is therefore imperative that it is kept against the baby's skin to enable the monitor sensor to detect breathing movement. According to the World Health Organisation (WHO), babies should be placed on their backs to sleep (see www.snuza.com). Please ensure that your baby is placed to sleep on its back unless otherwise advised by your baby's doctor.

Turning On and Off

ON: Turn Snuza on by pressing and holding the ON/OFF Button (1) for approximately half a second.

OFF: Turn Snuza off by pressing the ON/OFF Button (1) and the MODE/OFF Button (8) simultaneously.

Operation

When Snuza Halo is turned on (press and hold the ON/OFF button (1) for approximately half a second) a self-test will run during which all the indicator lights flash in sequence followed by a short vibration of the breathing stimulator, then a start-up tone will be heard, followed by a 1 second pause and finally the battery level will be displayed by the Battery Indicator Light (3) briefly flashing one of 3 colours: red, yellow or green, having the following meaning:

- Battery OK
- Battery nearing depletion
- Battery flat – do not use

Careful attention must be paid during the self test to ensure all functions are working properly and that the battery level is high enough for proper operation.

If the battery is too flat to operate, the battery indicator light will flash red accompanied by a short beep every second. **Do not use the monitor** (See "Disposal" for further details).

Monitoring Mode

Once the self test completes, monitoring mode commences. During monitoring mode, the Movement Indicator Light (5) will illuminate as the baby's breathing causes the stomach to move. Each breath is indicated by a green flash¹ unless there is a period of no breathing movement for 15 seconds, in which case a vibration will be activated in an attempt to resume breathing. If breathing movement is then detected as a result of this stimulation the Movement Indicator Light will flash yellow (instead of green). This informs you that a breathing interruption had occurred since the monitor was turned on.

If the period of no breathing movement is longer than 20 seconds, the alarm will be activated. The Alarm Indicator Light (6) will flash red in conjunction with the audible alarm. **Note that resuscitation may be required.**

If 3 or more 'incidents' are detected (movement detected after the stimulator has been activated), an incident warning is raised. The incident warning is characterised by a flashing yellow Movement Indicator Light (5) and a beep every 2 seconds. Consult your baby's doctor. Snuza Halo must be switched off then back on to reset this condition.

¹ The minimum period between flashes is 1 second for the first 5 minutes of monitoring (after turning on). Thereafter, the minimum flash period becomes 3 seconds, i.e. the breathing indicator will only flash at least every 3 seconds even if breathing is at a higher rate than this.

If the battery nears depletion during monitoring mode, the Battery Indicator Light (3) will flash red on each breath. This is a warning that the battery will soon be depleted. If the battery becomes depleted during monitoring mode, the low battery alarm will sound. This is characterised by a flashing red Battery Indicator Light (5) and a simultaneous beep every 2 seconds. **Do not use the monitor.** (see Disposal)

Briefly pressing the MODE button during monitoring will allow a 'tick' to be heard on each breath. The tick volume has 3 levels and can be increased by pressing the mode button repeatedly until the desired tick volume is reached. The 'tick' function is turned off by pressing the MODE button a fourth time, indicated by a lower tone beep.

Precautions

Do not insert anything into the Sound Emission Hole (2) as damage to the device may result. When cleaning Snuza, do not pour running water into this cavity.

Cleaning

Should Snuza Halo become soiled, gently wipe with a damp cloth to remove any dirt. Snuza Halo is splash resistant, not waterproof, so please don't wash your Snuza Halo.

Storage

When Snuza Halo is not in use, place the monitor in the protective case for safe storage. Do not store in a damp area as it may affect the monitor and cause it to malfunction.

Troubleshooting

See www.snuza.com/faq.php.

Battery Life

The non-replaceable battery is designed to last for a 12 month period, being used on average 6 times per day for a total of 18 hours per day, allowing up to 4 stimulations per day and 1 alarm per day for no longer than 20 seconds.

Disposal

If monitoring is required (beyond 1 year) Snuza Halo may be traded in for a replacement unit. For further details, please see our trade-in policy at www.snuza.com/trade-in.php.

If re-use is not required, Snuza must be properly disposed of in accordance with your country's laws governing the disposal of Li-SOCl₂ batteries. Alternatively, units returned to our factory will be refurbished for charity purposes by donating units to charity organisations (eg Red Cross Children's Hospital) and provide impoverished communities in and around our marketing territories with affordable access to our products.

Disclaimer

The Snuza Halo Baby Breathing Monitor is a baby-care aid, not a medical device. It is intended for use under safe operating conditions and must be used responsibly and in accordance with the detailed instructions appearing in this SNUZA Instruction Manual. Babies with a known predisposition to any breathing abnormality including apnoea should be monitored by a doctor. Customers use this monitor at their own risk and Biosentronics cc, its members, employees, agents, contractors, representatives, manufacturers, distributors and associates ("SNUZA") shall not be held liable for any loss, damage or injury suffered by the customer or any other person arising from, or in connection with, the use or manufacture of the monitor, including loss, damage or injury suffered by the customer or any other person as a result of any defects in respect of the monitor, and all warranties, and any other liability from whatsoever cause arising, are hereby excluded and the customer hereby indemnifies Biosentronics cc in respect of any such liability.